LESSON 2.7 **Practice B**
For use with pages 109–118

Evaluate the expression.

1. $\pm\sqrt{81}$

2. $\pm\sqrt{25}$

3. $-\sqrt{400}$

4. $\sqrt{625}$

5. $\sqrt{4900}$

6. $\pm\sqrt{169}$

Approximate the square root to the nearest integer.

7. $-\sqrt{29}$

8. $\sqrt{108}$

9. $-\sqrt{53}$

10. $\sqrt{138}$

11. $-\sqrt{55}$

12. $\sqrt{640}$

Tell whether each number in the list is a real number, a rational number, an irrational number, an integer, or a whole number. Then order the numbers from least to greatest.

13. $-\sqrt{16}, 3.2, -\dfrac{3}{2}, \sqrt{9}$

14. $\sqrt{5}, -6, 2.5, -\dfrac{24}{5}$

Evaluate the expression for the given value of x.

15. $14 + \sqrt{x}$ when $x = 16$

16. $\sqrt{x} - 5.5$ when $x = 4$

17. $-9 \cdot \sqrt{x}$ when $x = 25$

18. $2\sqrt{x} - 1$ when $x = 100$

19. **Park** A local park is in the shape of a square and covers an area of 3600 square feet. Find the side length of the park.

20. **Wall Poster** You are considering buying a square wall poster that has an area of 6.25 square feet. Find the side length of the wall poster.

21. **Road Sign** The U.S. Department of Transportation determines the sizes of the traffic control signs that you see along the roadways. The square Pennsylvania state route sign at the right has an area of 1296 square inches. Find the side length of the sign.

22. **Flower Bed** You are building the square flower bed shown using railroad ties. You want to place another railroad tie on the diagonal to form two triangular beds. Find the length of the diagonal by using the expression $\sqrt{2s^2}$ where s is the side length of the flower bed. Round your answer to the nearest tenth.

5 ft

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